

# Work Order ID 78120

**\*78120\***

Page 1

December-29-11 8:32:36 AM

Item ID: D3628-1 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Cupped Washer  
 Start Date: 29/12/2011 Start Qty: 200.00 **\*200\*** Cust Item ID:  
 Required Date: 12/01/2012 Req'd Qty: 200.00 **\*200\*** Customer:  
 Reference:

Approvals: Process Plan: MLJ Date: 11/12/29 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3628	Rev B								

100 PURCHASING 0.00  
**\*100\***  
 Purchasing Memo 0.00  
 Purchasing Issue P/O: 15745  
 Email or Ship DXF file to vendor  
 Laser Cut D3628-1 flat pattern and form as per Dwg D3628  
 Possible Supplier: GFI  
 Material release note is required

11/12/29  
12-01-3

110 Receive & Inspect for Damage & Mat'l Certs 0.00  
**\*110\***  
 Packaging Memo 0.00  
 Packaging Ensure material certification is attached

12/01/26 (200)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 78120****\*78120\***

Page 2

December-29-11 8:32:36 AM

Item ID: D3628-1      Accept      **\*N900040100\***      Setup Start **\*NS1\***  
Revision ID:      Stop **\*NS2\***  
Item Name: Cupped Washer  
Start Date: 29/12/2011      Start Qty: 200.00      **\*200\***      Cust Item ID:  
Required Date: 12/01/2012      Req'd Qty: 200.00      **\*200\***      Customer:  
Reference:

Approvals:      Process Plan:      Date:      Tooling:      Date:      Run Start **\*NR1\***  
QC:      Date:      SPC (Y/N):      Date:      Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120	QC6- Inspect dimensions to drawing	0.00							
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**\*120\***

QC

Quality Control

Memo

0.00

Srelitz7

Cauto

(X20)

QSP019

130

Identify as per dwg & Stock Location: **ST 58**      0.00**\*130\***

Packaging

Packaging

Memo

0.00

(200) SD 12-01-27

140

QC21- Final Inspection - Work Order Release      0.00

**\*140\***

QC

Quality Control

Memo

0.00

12/1/30

12-01-30  
200

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

December-29-11 8:32:41 AM

Page 1

Work Order ID: 78120

\*78120\*

Parent Item: D3628-1

\*D3628-1\*

Parent Item Name: Cupped Washer

Start Date: 29/12/2011

Required Date: 12/01/2012

Start Qty: 200.00

Required Qty: 200.00

Comments: IPP Rev:A New Issue 07-05-28 JLM  
IPP Rev:B Removed Powder 07-07-11 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D3628-1P

Purchased

No

110

Each

0.0000

1

200

\*D3628-1P\*

\*\*

CUPPED WASHER

*[Signature]* 12/01/2012 (200)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

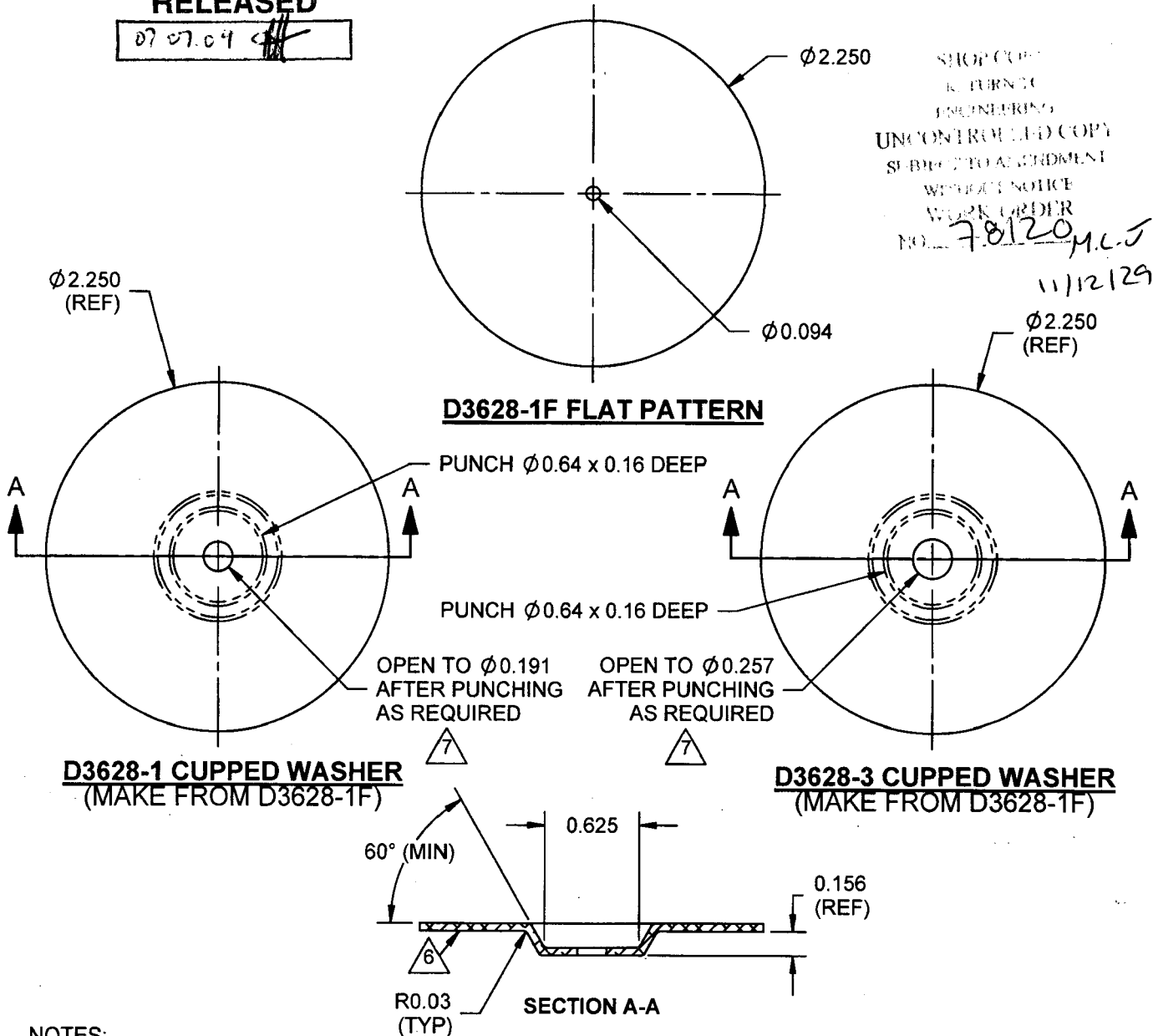
**NOTE:** Date & initial all entries

**DART**

DESIGN <b>CB</b>	DRAWN BY <b>CB</b>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <b>LE</b>	APPROVED <b>[Signature]</b>	DRAWING NO. <b>D3628</b>	REV. B SHEET 1 OF 1
DATE <b>07.07.09</b>	TITLE <b>CUPPED WASHER</b> SCALE 1:1		
REV	DATE	DESCRIPTION	
A	07.06.08	NEW ISSUE	
B	07.07.09	REMOVE POWDER COAT	

**RELEASED**07.07.09 **[Signature]**

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. **78120** M.L.J  
11/12/29

**NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 18 GAUGE (0.050 THICK) PER MIL-S-5019 (REF DART SPEC M304S18GA)
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX
- 6) IDENTIFY WITH DART P/N "D3628-1/-3" USING FINE POINT PERMANENT INK MARKER ON THE UNDERSIDE OF THE PART AS INDICATED
- 7) WHEN DRILLING OUT THE CENTRE HOLE AFTER PUNCHING, ENSURE THAT THE HOLE IS DRILLED CONCENTRIC TO THE CUPPED AREA, WITHIN 0.03

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# SPECIFICATION CONTROL DRAWING

REFERENCE ONLY

PURCHASE MATERIAL: AISI 304/316 SS SHEET  
ANNEALED  
2B FINISH

SPECIFICATION: MIL-S-5059  
OR AMS 5513 (304)  
OR AMS 5524 (316)  
OR ASTM A240  
OR ASME SA240

PART NUMBER: M304S/TT GA  
GA

WHERE "TT" = GAUGE THICKNESS

EG. 16 GAUGE SS SHEET = M304S16GA

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176

RELEASED  
09/06/01

B	REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.06.01		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M304S	REV. B SHEET 1 OF 1
TITLE 304/316 SS SHEET	SCALE NTS
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180 AVENUE LABROSSE  
POINTE-CLAIRE, QC, CANADA H9R 1A1  
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

I est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.



# BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON / SHIPPING MEMO NO.	PAGE
JR - DY	MO - MO	AN - YR		
24	01	12	0478815	1/1



NDU À / SOLD TO

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

CODE DE CLIENT / CUSTOMER CODE		N° DE CONTRAT / JOB NO.	VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO.	EXPÉDIÉ PAR / SHIP VIA				
DART		GFI-0299	PO15765					
QUANTITÉ / QUANTITY	N° DE PIÈCE / PART NO.		DESCRIPTION					
140	D3628-1P		CUPPED WASHER					
			CERTIFICATE OF CONFORMANCE REQ					
MFG. JOB# 30242914-001 QTY 140								
EXPÉDITEUR / SHIPPER				N° DE BON DE LIVRAISON / SHIPPING MEMO NO.				

RECU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION  
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

# CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE  
POINTE CLAIRE, QC  
H9R 1A1

**DART AEROSPACE LTD**  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. <u>8</u>		OUR JOB NO <u>J0242914</u>		SHIPPING MEMO <u>0478815</u>	
ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME
<u>--</u>	<u>140 PCS</u>	<u>PO15765</u>	<u>D3628-1P</u>	<u>B</u>	<u>CUPPED WASHER</u>
MATERIAL		SUPPLIED BY		MAT. REL. NO.	
<u>AMS 5513 304 ANN</u>		<u>TW METALS / ALLEGHENY LUDLUM</u>		<u>H/N # 948715</u>	

#	PROCESS	PROCESSOR	RELEASE NOTE #
1	FIRST ARTICLE INSPECTION REPORT ON FILE	GFI	N/A
2	REF. GFI MANUFACTURING JOB NUMBER J0242914-001 (140 PCS)	GFI	N/A
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 24 JANUARY 2012

G.F.I. Q.C. REP.



ORDER NO.: 03289967 FROM: CINC PAGE 1

T NUMBER: 1203148 **NET WGT:** **63.000** REQ.DATE: 01/13/12 CONFIRMED  
D TO: SHIP TO:  
INC GFI INC  
AVE. LABROSSE 180 AVE LABROSSE  
NTE CLAIRE QC PIONTE CLAIR QC  
ADA CN H9R 1A1 CANADA CN H9R 1A1

ESPERSON: DAVE KOSICKI DISTRICT: CINCINNATI  
MS: 1% 10 NET 30 VIA: ROADWAY EXPRES  
.B.: SHIPPING POINT FREIGHT: COLLECT  
T ORD NO.: 0079871 RELEASE NO.:  
RECEIVING PHONE: 514 630-4877  
E ITEM DESCRIPTION WIDTH LENGTH

**1 51073 304 S/S SHEET \* AMS 5513 .050 36 120**  
**QTY: 1.000 EA WT: 63.000 PC: 1 SHP: 1.000 EA**

**T#: TS050361204A**

1 TEST REPORTS REQUIRED \*\*  
1 CERTS REQUIRED \*\*

N: EAR99 Export License: NLR Expiration Date: 0/00/00  
49249740 HT:948715 PC: 1 SLB/CL:TEST#8777838 DUAL CERTS  
:UNITED STATES MFG:UNITED STATES

P VIA EMERY DEFERED ACCT# 543483804 OR YELLOW COLLECT  
AR CUSTOMS THRU CONSIGNEE'S BROKER: DHL GLOBAL FORWARDING  
T #,GRADEAND THICKNESS MUST BE LINE  
KED ON SHEET

----- PACK INFO -----						
A	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
K	SKIDS	1.000	312.000	36.0000	120.0000	

JRC  
001- UNLOAD TYPE: PER CUSTOMER SP

DATE SHIPPED \_\_\_\_\_

DATE FILLED \_\_\_\_\_

**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

ORDER NO.: 03289967 FROM: CINC PAGE 2

ST NUMBER: 1203148 NET WGT: 63.000 REQ.DATE: 01/13/12 CONFIRMED  
 LD TO: SHIP TO:  
 I INC GFI INC  
 0 AVE. LABROSSE 180 AVE LABROSSE  
 INTE CLAIRE QC PIONTE CLAIR QC  
 NADA CANADA  
 CN H9R 1A1 CN H9R 1A1

LESPERSON: DAVE KOSICKI DISTRICT: CINCINNATI  
 RMS: 1% 10 NET 30 7640 REINHOLD DR  
 O.B.: SHIPPING POINT CINCINNATI OH 45237  
 ST ORD NO.: 0079871  
 A: ROADWAY EXPRES  
 EIGHT: COLLECT  
 LEASE NO.:  
 CEIVING PHONE: 514 630-4877

W Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

**"CERTIFICATE OF CONFORMANCE"**

W Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 1/11/12

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Version contrary to U.S. law prohibited.

**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON THE

NOTICE OF SHIPMENT/  
PACKING LIST



CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE: 01017596  
CUST. CODE: 110977  
VANDERGRIFT, PA.  
SHIP TO: UNITED PERFORMANCE METALS  
3475 SYMMES ROAD  
HAMILTON OH 45015

DATE SHIPPED: 01/17/11  
INVOICE: 655157

SHIP TO: UNITED PERFORMANCE METALS  
3475 SYMMES ROAD  
HAMILTON OH 45015

*Sr 10/1/12*

GRADE AND SPECIFICATIONS  
ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA E/SCREEN PRA A) (ASTM-A-666-10) (S-400 DTD 10/10/2008) (ASTM-A-240-10A) (S-1000 DATED 3/2/2010) (ASME-SA-240 ED 2010) (10/11/10 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (EN 10028-7:2007-1.4301-2B) (EN 10028-7:2007-1.4307-2B)

CARRIER - GROSS, RONALD, INC.

ITEM PCS DIMENSIONS W/G/L

001 1 36.1-.050/2123.  
P CUST IDENTITY 00636  
1 SKID

HEAT #	COIL #	TEST #	GROSS TARE NET	THEO TAG #/ CD SKID #
948715	12170N126	8777838	13385 50 13335	757708
			13385 50 13335	

TYPE HEAT/TEST  
HEAT 948715  
TEST LOCATION  
CHECK 8777838  
TEST LOCATION

--C--	--MN--	--P--	--S--	--SI--	--CR--	--NI--	--MO--	--CU--	--N--
.018	1.66	.035	.001	.43	18.36	8.07	.43	.55	.08
MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
.022	1.66	.034	.0004	.42	18.30	8.03	.43	.54	.07
TC	BN	BN	TC	BN	BN	BN	BN	BN	TC

ITEM TEST NO  
001 8777838

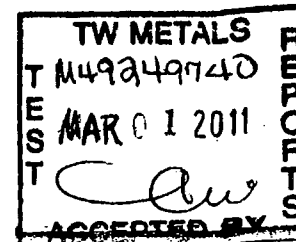
TEST LOCATION

YIELD PSI *	TENSILE % PSI	ELONG IN 2" % R/A	HARDNESS 80.HRBW 81.HRBW TC	BEND T PASS TC	CORROSION A 262 PR E PASS TC	GRAIN SIZE 6. TC
T 42000.	93000.	73.				
TC	TC	TC	TC	TC	TC	TC

\* Y.S. BY 0.2% OFFSET METHOD

REVIEWED BY Q.C.

Date 1/29/11 By *JS*



PAGE 01 - CONTINUED ON PAGE 02

CONSIGNEE: Please Note - This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-8577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING: Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-8577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.  
Tracy McFarland  
Director Corporate Quality Assurance

Shipped: 02/18/2011  
Heat: 948715  
Part: S1073  
Sales #: 01161393  
Quantity: 65  
Our files the material shipped on your purchase order conforms to the following:  
3475 Symmes Road Hamilton, OH 45015  
Lynne Harper

**NOTICE OF SHIPMENT/  
PACKING LIST**



**CERTIFICATE OF TEST**

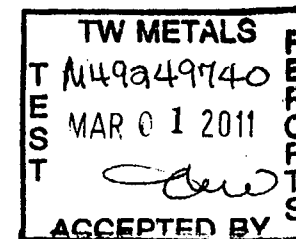
AL 6168-3 908

CUST ORD NO. & DATE 01017596		CUST CODE 12/07/10 110977	ACCEPTING MILL VANDERGRIFF, PA.	SHIPPER 482178	PRODUCT CODE 13020102060000	MILL ORDER NUMBER 30-120-187	DATE SHIPPED 01/17/11
FORMS DISTRIBUTION SOLD TO → 1 SHIP TO → SPEC →		REPEAT ORDER 82037-5	DO RATE 26	GOVT CONTRACT	MATL 1124	SHIPPING LOCATION VANDERGRIFF PA	INVOICE 655157
SOLD TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015		PRIME SEC. DSO DSO 584	SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015				

**GRADE AND SPECIFICATIONS**  
 ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA E/SCREEN PRA A) (ASTM-A-666-10) (S-400 DTD 10/10/2008) (ASTM-A-240-10A) (S-1000 DATED 3/2/2010) (ASME-SA-240 ED 2010) (10/11/10 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (EN 10028-7:2007-1.4301-2B) (EN 10028-7:2007-1.4307-2B)

CARRIER - GROSS, RONALD, INC.

ITEM TEST NO 001 8777838	CORROSION ISO 3651-2 PASS	MELT SOURCE 1.	T-YIELD 1% 49000.
TEST LOCATION METALLOGRAPHIC MAGNIFICATION: 100X	TC ETCHANT USED: OXALIC ACID	TC	



GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

FLAT NON-WELDED TEST PIECE WAS USED FOR ISO 3651-2 INTERGRANULAR CORROSION TEST. T1 SENSITIZATION HEAT TREATMENT WAS PERFORMED ON LOW CARBON AND STABILIZED GRADES.

DIN EN 10204:2005 - 3.1 ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD 2000 MERKBLATT AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC.

MATERIAL WAS SOLUTION ANNEALED AT 1900F (1038C) MINIMUM FOR A TIME COMMENSURATE WITH THICKNESS AND RAPIDLY COOLED WITH AIR AND WATER.

ALLEGHENY LUDLUM DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS.

NO WELDS/WELD REPAIRS PERFORMED.

PAGE 02 - CONTINUED ON PAGE 03

01/17/11 07:52:54

**CONSIGNEE--Please Note--** This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

**WARNING**  
 Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or smoke may cause lung disease. See Material Safety Data Sheets for further information.

Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention, les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland  
 Director, Corporate Quality Assurance

Part#: 51073  
 Sales #: 01161393  
 Quantity: 85

Our files the material shipped on your purchase order conforms to the following:  
 3475 Symmes Road Hamilton, OH 45015

Lynne Harber

**NOTICE OF SHIPMENT/  
PACKING LIST**



**CERTIFICATE OF TEST**

AL 6168-3 908

CUST. ORD. NO & DATE 01017596		CUST. CODE 12/07/10 110977		ACCEPTING MILL VANDERGRIFT, PA.		SHIPPER NO. 482178		PRODUCT CODE 13020102060000		MILL ORDER NUMBER 30-120-187		DATE SHIPPED 01/17/11	
FORMS DISTRIBUTION SOLD TO → 1 SHIP TO → SPEC →		REPEAT ORDER 82037-5		DO RATE 26		GOVT CONTRACT		MATERIAL 1124 VANDERGRIFT		SHIPPING LOCATION PA		INVOICE 655157	
SOLD TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015				PRIME SEC. DSO DSO 584		SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015							

**GRADE AND SPECIFICATIONS**  
 ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA E/SCREEN PRA A) (ASTM-A-666-10) (S-400 DTD 10/10/2008) (ASTM-A-240-10A) (S-1000 DATED 3/2/2010) (ASME-SA-240 ED 2010) (10/11/10 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (EN 10028-7:2007-1.4301-2B) (EN 10028-7:2007-1.4307-2B)

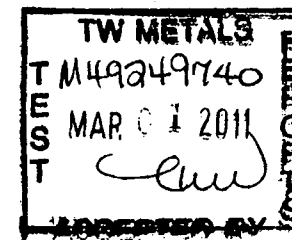
FINAL MECHANICAL TESTING PERFORMED BY WESTMORELAND MECHANICAL TESTING & RESEARCH, YOUNGSTOWN, PA. (T7869) GEAE S400 AND ISO/IEC 17025 APPROVED FACILITY.

THIS DIN EN 10204:2005 - 3.1 CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI AL HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI AL QUALITY MANUAL REVISION 19 DATED 06/09/2010.

ALLEGHENY LUDLUM WORKS TO THE ROLLS ROYCE SABRE QUALITY MANAGEMENT SYSTEM.

QUALITY SYSTEM CERTIFIED ACCORDING TO PRESSURE EQUIPMENT DIRECTIVE 97/23/EC, ANNEX I, 4.3 BY TUV SUD, INDUSTRIE SERVICE GMBH, (NOTIFIED BODY 0036).

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:  
 C, S BY COMBUSTION/INFRARED  
 N, O, H BY INERT FUSION/THERMAL CONDUCTIVITY  
 MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF  
 B BY OES  
 AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES  
 PB, BI, AG BY GFAA



PAGE 03 - CONTINUED ON PAGE 04

CONSIGNEE: Please Note- This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

**WARNING**

Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires, veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland  
Director, Corporate Quality Assurance

Customer: J.W. Metals  
Shipped: 02/18/2011  
Heat: 948715

P.O.: 006243740  
Part#: 51073  
Sales #: 01161933  
Quantity: 65

ATI is to certify that in accordance with the records in our files the material shipped on your purchase order conforms to the following:  
 3475 Symmes Road Hamilton, OH 45015

*Signature*  
Lynne Harper



**NOTICE OF SHIPMENT/  
PACKING LIST**



**CERTIFICATE OF TEST**

AL 6168-3 908

CUST ORD NO. & DATE		CL. Y. CODE	ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
01017596		12/07/10	110977	VANDERGRIFF, PA.	482178	13020102060000	30-120-187
FORMS DISTRIBUTION							
SOLD TO	1	SHIP TO	SPEC	REPEAT ORDER	DO RATE	PRI-ORITY	GOVT CONTRACT
1		1	1	82037-5	26		
SOLD TO		PRIME SEC.		SHIP TO		INVOICE	
UNITED PERFORMANCE METALS		DSO DSO		1124 VANDERGRIFF		PA 655157	
3475 SYMMES ROAD		584		UNITED PERFORMANCE METALS		3475 SYMMES ROAD	
HAMILTON OH 45015				HAMILTON OH 45015			

**GRADE AND SPECIFICATIONS**  
 ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA E/SCREEN PRA A) (ASTM-A-666-10) (S-400 DTD 10/10/2008) (ASTM-A-240-10A) (S-1000 DATED 3/2/2010) (ASME-SA-240 ED 2010) (10/11/10 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (EN 10028-7:2007-1.4301-2B) (EN 10028-7:2007-1.4307-2B)

**MATERIAL TESTED AT ALLEGHENY LUDLUM GEAE S400 APPROVED FACILITIES (T1225):**  
 NATRONA HEIGHTS TECHNICAL CENTER AND BRACKENRIDGE, PA.

ATI ALLEGHENY LUDLUM HOLDS SEVERAL QUALITY AND LABORATORY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, AD 2000-MERKBLATT WO, EU PRESSURE EQUIPMENT DIRECTIVE 97/23/EC, NADCAP, ISO/EIC 17025, GEAE S400, GEAE S-1000. REFER TO WWW.ALLEGHENYLUDLUM.COM TO ACCESS THE CURRENT ATI AL QUALITY CERTIFICATIONS.

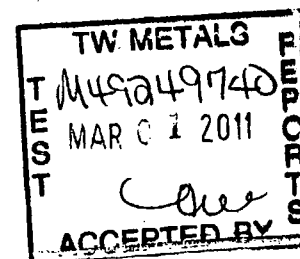
THE NUMERIC CODES SHOWN UNDER MELT SOURCE CAN BE INTERPRETED AS FOLLOWS:

1. - MATERIAL MELTED, ROLLED AND TESTED IN THE UNITED STATES.
2. - FOREIGN MELT; ROLLED AND TESTED IN THE UNITED STATES.

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:

BN = ATI-ALLEGHENY LUDLUM; 100 RIVER ROAD; BRACKENRIDGE, PA 15014  
 MI = ATI-ALLEGHENY LUDLUM; 950 TENTH STREET; MIDLAND, PA 15059  
 TC = ATI-ALLEGHENY LUDLUM; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

FOR ACCESS TO ONLINE CERTIFICATES OF TEST  
 REGISTER AT WWW.ALCEXTRA.COM



ISSUED BY ALLEGHENY LUDLUM - 01/17/2011 08:20  
 CARRIE MCFALL - QUALITY ASSURANCE DEPT.

PAGE 04 - FINAL PAGE.

**CONSIGNEE Please Note:** This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied in your Purchasing Department. For an additional copy please telephone 724-226-6577. CAUTION: Processing this material fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

**WARNING**  
 Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification (s) as set forth in Allegheny Ludlum's Order Acknowledgment.

Tracy McFall  
 Director, Corporate Quality Assurance

Part#: 51073  
 Sales #: 01161393  
 Quantity: 65

our files the material shipped on your purchase order conforms to the following:  
 3475 Symmes Road Hamilton, OH 45015

Lynne Harper



180 AVENUE LABROSSE  
POINTE-CLAIRE, QC, CANADA H9R 1A1  
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

GFI est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.



# BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON / SHIPPING MEMO NO	PAGE
JR - DY	MO - MO	AN - YR		
24	01	12	0478816	1/1

VENDU À / SOLD TO

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7



CODE DE CLIENT / CUSTOMER CODE		N° DE CONTRAT / JOB NO.	VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO.	EXPÉDIÉ PAR / SHIP VIA
DART		GFI-0299	0242914	PO15765
QUANTITÉ / QUANTITY	N° DE PIÈCE / PART NO.		DESCRIPTION	
60	D3C28-1P		CUPPED WASHER	
			CERTIFICATE OF CONFORMANCE REQ	
	MFG. JOB# 50221999-001 QTY 60			

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES

EXPÉDITEUR / SHIPPER

N° DE BON DE LIVRAISON / SHIPPING MEMO NO



# CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas&Betts**

180 LABROSSE AVENUE  
POINTE CLAIRE, QC  
H9R 1A1

**DART AEROSPACE LTD**  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. <u>9</u>		OUR JOB NO <u>J0242914</u>		SHIPPING MEMO <u>0478816</u>	
ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME
<u>---</u>	<u>60 PCS</u>	<u>PO15765</u>	<u>D3628-1P</u>	<u>B</u>	<u>CUPPED WASHER</u>
MATERIAL		SUPPLIED BY		MAT. REL. NO.	
<u>AMS 5513 304 ANN</u>		<u>TW METALS / ALLEGHENY LUDLUM</u>		<u>H/N # 990570</u>	

	PROCESS	PROCESSOR	RELEASE NOTE #
1	<u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>	<u>GFI</u>	<u>N/A</u>
2	<u>REF. GFI MANUFACTURING JOB NUMBER J0221999-001 (60 PCS)</u>	<u>GFI</u>	<u>N/A</u>
3	<u> </u>	<u> </u>	<u> </u>
4	<u> </u>	<u> </u>	<u> </u>
5	<u> </u>	<u> </u>	<u> </u>
6	<u> </u>	<u> </u>	<u> </u>
7	<u> </u>	<u> </u>	<u> </u>
8	<u> </u>	<u> </u>	<u> </u>
9	<u> </u>	<u> </u>	<u> </u>

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 24 JANUARY 2012

G.F.I. Q.C. REP. *[Signature]*



DP12-001 REV 0 Bombardier Certificate of Compliance  
TW Metals District Procedure

Revision 0

Revision Date 04-03-00

Superseding Initial

Page 1 of 1

## CERTIFICATE OF COMPLIANCE

## FRAUD AND FALSIFICATION STATEMENT

The recording of false, fictitious, or fraudulent statements or entries on this document may be punished as a felony under federal statutes including federal law Title 18 chapter 47

## CERTIFICATE OF COMPLIANCE

This certificate of compliance certifies that the material supplied on the purchase order number below complies in all respects with the material description and procurement specifications

## MERCURY FREE STATEMENT

We certify that mercury, radium, or alpha bearing instruments and / or equipment which might cause contamination have not been used in the manufacture, fabrication, assembly or testing of any material supplied by TW Metals Inc. Switches, glass thermometers, standard cell and other items containing the above elements may be used, but they will be located so as not to constitute a contamination hazard

CUSTOMER NAME

GFI

PURCHASE ORDER No.

0077443

ITEM No

0001

SHIPPER INVOICE No

03268508

MATERIAL

304 S/S Sheet

SPECIFICATION:

AMS 5513

MANUFACTURING MILL

ATI

Allegheny Ludlum

SIZE

.050

HEAT / LOT No

990570

PART No

TS050361204A

QUANTITY:

1EA

TEST DEPARTMENT CLERK

Amy Davis

## AUTHORITY

Joe Schab

Director of Quality Assurance



NOTICE OF SHIPMENT/  
PACKING LIST

## CERTIFICATE OF TEST

AL 8168-3 008

CUST. ORD. NO. & DATE 01016394		CUST. CODE 05/14/10 110977		SHIPPER NO. 462813		PRODUCT CODE 13020102060000		BILL ORDER NUMBER 30-050-144		DATE SHIPPED 07/15/10	
FORMS DISTRIBUTION SOLD TO 1 10-5 10-5		VANDERGRIFF, PA.		GOVT CONTRACT		MATERIAL 1124 VANDERGRIFF		SHIPPING LOCATION PA		INVOICE 650096	
SOLD TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015		PRIME SEC. DSO 584		SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015							

## GRADE AND SPECIFICATIONS

CARRIER - GROSS, RONALD, INC.  
 ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA B/SCREEN PRA A) (ASTM-A-666-03) (S-400 DTD 10/10/2008) (ASTM-A-240-10) (S-1000 DATED 1/2/08) (ASME-SA-240-07) (10/22/08 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (PWA 300 REV BJ) (F-14, F-17, F-22, F-23, F-MASTER) (EN 10028-7:2007-1.4301-2B) (CONTROLLED TO PWA LCS REQUIREMENTS) (EN 10028-7:2007-1.4307-2B)

ITEM TEST NO	CORROSION MELT	T-YIELD	P&W E-25
001 8772242	ISO 3651-2 SOURCE	1#	TRAN BEND
	PASS 1.	49500.	2.
TEST LOCATION	TC	53000.	
	CORROSION MELT	TC	TC
ITEM TEST NO	ISO 3651-2 SOURCE	T-YIELD	P&W E-25
001 8772578	PASS 1.	1#	TRAN BEND
		48400.	2.
TEST LOCATION	TC	49300.	
		TC	TC

NR = DATA NOT REQUIRED

METALLOGRAPHIC MAGNIFICATION: 100X ETCHANT USED: OXALIC ACID

GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

AUSTENITIC STAINLESS STEELS ARE SOLUTION ANNEALED AT 1900 DEGREES FAHRENHEIT MINIMUM (1038 C) AND RAPIDLY COOLED WITH AIR AND WATER TO DEVELOP THE SPECIFIED PROPERTIES. EVIDENCE OF CONFORMANCE IS PROVIDED BY THE ABILITY OF THE MATERIAL TO MEET THESE SPECIFIED MECHANICAL AND CORROSION REQUIREMENTS.

ALLEGHENY LUDLUM DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS. TO THE BEST OF ALLEGHENY LUDLUMS KNOWLEDGE, UNDERSTANDING, AND BELIEF, THIS MATERIAL WAS NOT CONTAMINATED BY MERCURY WHILE IT WAS BEING PRODUCED IN OUR FACILITIES.

PAGE 02 - CONTINUED ON PAGE 03

07/15/10 11:18:41

CONSIGNEE: Please Note—This consignment was turned over to carrier in full, clean condition, being correctly loaded, at which time our responsibility for loss or damage (infringement, ceased). For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on receipt before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-328-8577. CAUTION: Precautions that make fumes, dust, or pollution may cause lung disease. See Material Safety Data Sheet for further information.

## WARNINGS

Les fiches d'information en français de ce produit ont été fournies à votre département achats. Veuillez les consulter avant d'acheter. Pour une copie supplémentaire, veuillez téléphoner au service client 724-328-8577. Attention: les précautions mentionnées en production de fumée, poussières, ou pollution peuvent être cause de maladies pulmonaires. Pour plus de renseignements en français voir les fiches d'information en français.

This document is a true copy of data on file. The contents and test results apply to the order payment and specifications (if any) on file in Allegheny Ludlum's order acknowledgment.

Tracy McFarland  
Director, Corporate Quality Assurance

Customer: TW Metals  
Shipped: 07/15/2010  
Heat: 650096

Page: 38 X 100  
P.O. 211828  
Print: TW PO 0448239800  
Sales #: 01152115  
Quantity: 27

UNITED PERFORMANCE METALS  
This is to certify that in accordance with the records in our files the material shipped on your purchase order conforms to the following:  
3475 Symmes Road, Hamilton, OH 45015

Authorized Signature  
Lynne Harper

NOTICE OF SHIPMENT/  
PACKING LIST

## CERTIFICATE OF TEST

AL 6168-3 008

CUST. ORD. NO. & DATE 01016394 05/14/10		CUST. CODE 110977	SHIPPER NO. 462813	PRODUCT CODE 13020102060000	WILL ORDER NUMBER 30-050-144	DATE SHIPPED 07/15/10
FORMS DISTRIBUTION SOLD TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015		VANDERGRIFF, PA. REPEAT ORDER 82037-5 PRIME DSO SEC. DSO 584		SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015		INVOICE 650096

## GRADE AND SPECIFICATIONS

ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2240P) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA E/SCREEN PRA A) (ASTM-A-666-03) (S-400 DTD 10/10/2008) (ASTM-A-240-10) (S-1000 DATED 1/2/08) (ASME-SA-240-07) (10/22/08 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (PWA 300 REV BJ) (F-14, F-17, F-22, F-23, F-MASTER) (EN 10028-7:2007-1.4301-2B) (CONTROLLED TO PWA LCS REQUIREMENTS) (EN 10028-7:2007-1.4307-2B)

NO WELDS/WELD REPAIRS PERFORMED.

DIN EN 10204:2005 - 3.1 ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD 2000 MERKBLATT AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC.

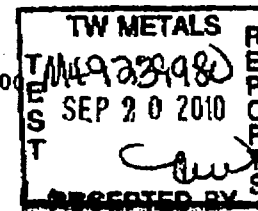
THE NUMERIC CODES SHOWN UNDER MELT SOURCE CAN BE INTERPRETED AS FOLLOWS:

1. - MATERIAL MELTED, ROLLED AND TESTED IN THE UNITED STATES.
2. - FOREIGN MELT; ROLLED AND TESTED IN THE UNITED STATES.

THIS DIN EN 10204:2005 - 3.1 CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 19 DATED 06/09/2010. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001 AND AS9100. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT THE NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND, PA FACILITIES OR AT A NADCAP AND ISO/IEC 17025 ACCREDITED COMMERCIAL LABORATORY.

ATI-ALLEGHENY LUDLUM HOLDS SEVERAL QUALITY AND LABORATORY CERTIFICATIONS THAT INCLUDE ISO-9001:2000, AS9100, AD 2000-MERKBLATT NO. AND EU PRESSURE EQUIPMENT DIRECTIVE 97/23/EC, NADCAP MATERIALS TESTING, ISO/IEC 17025, GEAC S400, GEAC S-1000. REFER TO WWW.ALLEGHENYLUDLUM.COM TO ACCESS THE CURRENT ATI-AL QUALITY CERTIFICATIONS.

ALLEGHENY LUDLUM WORKS TO THE ROLLS ROYCE RR9000:SABRE REQUIREMENTS.  
PAGE 03 - CONTINUED ON PAGE 04



07/15/10 11:18:41

**CONSIGNEES - Please Note:** This document was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives, if any shortage or damage is discovered, have a full description made by transportation agent on receipt before signing.

**Material Safety Data Sheets** for this product have been supplied to your Purchasing Department. For an additional copy please call 724-336-6577. **CAUTION:** Processing that causes fumes, dust, or solution may cause lung disease. See Material Safety Data Sheets for further information.

**WARNING:** Les fiches d'information - de sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au service achats 724-336-6577. **Attention:** Les traitements associés à la production de vapeur, poussières, ou solutions peuvent, sans précaution appropriée, causer des maladies pulmonaires. Pour plus de renseignements voir les fiches d'information en français.

This document is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgment.

Truey McNeil  
Director, Corporate Quality Assurance

Destination: 304L ANN 045-003 AM55513  
Outgoing: TTY Number:  
Shipping: 06/16/2010  
Habit: 690070

Size: 36 X 120  
P.O. 211293  
Print: TTY PO #44229300  
Serial #: 01102115  
Quantity: 27

UNITED PERFORMANCE METALS  
This is to certify that in accordance with the records in our files the material shipped in your purchase order is conforming to the specification.  
3475 Symmes Road Hamilton, OH 45018

Authorized Signature  
Lynne Hargis

NOTICE OF SHIPMENT/  
PACKING LIST

## CERTIFICATE OF TEST

AL 8168-3-908

CUST. ORD. NO. & DATE 01016394		CUST. CODE 05/14/10 110977	ACCEPTING MLL VANDERGRIFF, PA.	SHIPPER NO. 462813	PRODUCT CODE 13020102060000	WILL ORDER NUMBER 30-050-144	DATE SHIPPED 07/15/10
FORMS DISTRIBUTION BOLD → 1 SHIP TO →		REPEAT ORDER 82037-5	DO STATE 26	GOVT CONTRACT	MATL 1124 VANDERGRIFF	SHIPMENT LOCATION PA	SERVICE 650096
SOLD TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015		PRIME SEC. DSO DSO 584	SKIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015				

## GRADE AND SPECIFICATIONS

CARRIER - GROSS, RONALD, INC.  
 ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA E/SCREEN PRA A) (ASTM-A-666-03) (S-400 DTD 10/10/2008) (ASTM-A-240-10) (S-1000 DATED 1/2/08) (ASME-SA-240-07) (10/22/08 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (PWA 300 REV BJ) (P-14, P-17, P-22, P-23, P-MASTER) (EN 10028-7:2007-1.4301-2B) (CONTROLLED TO PWA LCS REQUIREMENTS) (EN 10028-7:2007-1.4307-2B)

FLAT NON-WELDED TEST PIECE WAS USED FOR ISO 3651-2 INTERGRANULAR CORROSION TEST. T1 SENSITIZATION HEAT TREATMENT WAS PERFORMED ON LOW CARBON AND STABILIZED GRADES.

QUALITY SYSTEM CERTIFIED ACCORDING TO PRESSURE EQUIPMENT DIRECTIVE 97/23/EC, ANNEX I, 4.3 BY TUV SUD, INDUSTRIE SERVICE GMBH, (NOTIFIED BODY 0036).

MATERIAL TESTED AT ALLEGHENY LUDLUM GRAE S400 (DATED 10/31/07) APPROVED FACILITIES (T1225):  
 NATRONA HEIGHTS TECHNICAL CENTER AND BRACKENRIDGE, PA.

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:  
 C, S BY COMBUSTION/INFRARED  
 N, O, H BY INERT FUSION/THERMAL CONDUCTIVITY  
 MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF  
 B BY OES  
 AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES  
 PB, BI, AG BY GFAA

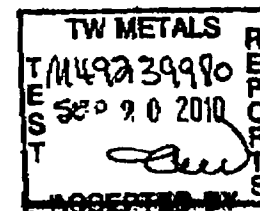
FINAL MECHANICAL TESTING PERFORMED BY WESTMORELAND MECHANICAL TESTING & RESEARCH, YOUNGSTOWN, PA.  
 (T7869) GRAE S400 AND ISO/IEC 17025 APPROVED FACILITY.

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:

MI = ATI-ALLEGHENY LUDLUM; 950 TENTH STREET; MIDLAND, PA 15059

TC = ATI-ALLEGHENY LUDLUM; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

PAGE 04 - CONTINUED ON PAGE 05



07/15/10 11:18:11

CONSIGNEE: Please Note: This consignment was not over in carrier in the same condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on receipt before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy please call 724-226-4577. CAUTION: Preserving Our Environment. Runoff, dust, or solutions may cause long damage. See Material Safety Data Sheets for further information.

## WARNING

Les fiches d'information en cours de produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez en demander au numéro suivant 724-226-4577. Attention: les traitements ordinaires de protection de vapeur, poussières, ou solutions peuvent, sans cause de dommages environnementaux. Pour plus de renseignements se référer aux fiches d'information en cours.

The above is a true copy of data on file. The material and test results conform to the sales contract and specifications as set forth in Allegheny Ludlum Order Acknowledgment.

Tracy McFarland  
 Director, Corporate Quality Assurance

Customer: SMI, ARI, J45-032 AMSS313  
 Shipper: TW Metals  
 Date: 08/16/2010  
 Date: 08/05/10

Rev: 36 X 120  
 P.O. 211288  
 Price: TTY PO 04 223080  
 Sales R: 01/03/15  
 Quantity: 27

UNITED PERFORMANCE METALS  
 This is to certify that in accordance with the records in our files the material shipped on your purchase order conforms to the following:  
 3475 Symmes Road Hamilton, OH 45015

Authorized Signature  
 Lynne Harper



NOTICE OF SHIPMENT/  
PACKING LIST

## CERTIFICATE OF TEST

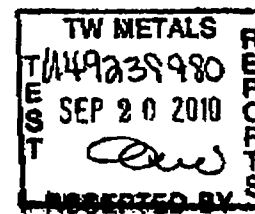
AL 6168-3 908

CUST. ORD. NO. & DATE 01016394		CUST. CODE 05/14/10 110977	ACCEPTING MILL VANDERGRIFF, PA.	SHIPPER NO. 462813	PRODUCT CODE 13020102060000	MILL ORDER NUMBER 30-050-144	DATE SHIPPED 07/15/10	
FORMS DISTRIBUTION SOLD TO 1 SHIP TO SPEC		REPEAT ORDER 82037-5	DO RATE 26	GOVT CONTRACT	MATL.	SHIPPING LOCATION 1124 VANDERGRIFF PA	SWAGE 650096	
SOLD TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015		PRIME SEC. DSO DSO 584	SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015					

## GRADE AND SPECIFICATIONS

CARRIER - GROSS, RONALD, INC.  
 ALLEGHENY STAINLESS STEEL TYPE 304-L SHEET C R COILS ANNEALED 2B FIN 3 EDGE (UPM 304L/304/302 LCS) (AMS 2248F) (AMS 5511H) (AMS 5513J) (AMS 5516P) (ASTM-A-262-10 PRA B/SCREEN PRA A) (ASTM-A-666-03) (S-400 DTD 10/10/2008) (ASTM-A-240-10) (S-1000 DATED 1/2/08) (ASME-SA-240-07) (10/22/08 EXCEPT UPM 304L/304/302) (UNS S30403) (UNS S30200) (UNS S30400) (UPM-QRS-001) (PWA 300 REV BJ) (F-14, F-17, F-22, F-23, F-MASTER) (EN 10028-7:2007-1.4301-2B) (CONTROLLED TO PWA LCS REQUIREMENTS) (EN 10028-7:2007-1.4307-2B)

FOR ACCESS TO ONLINE CERTIFICATES OF TEST  
 REGISTER AT WWW.ALCXTRA.COM



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DISCLAIMER: Please Note - This copy of the Material Safety Data Sheet (MSDS) is being provided to you for informational purposes only. It is not intended to be used as a substitute for the actual MSDS. The actual MSDS is the only authoritative source of information regarding the hazards of the material. The information contained herein is subject to change without notice. The user is responsible for obtaining and reading the actual MSDS for the material being used.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy, please call 714-326-6577. CAUTION: Processing this material may cause dust, or solutions may cause lung disease. Use Material Safety Data Sheets for further information.

## WARNING

Les fiches d'information de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des renseignements supplémentaires, veuillez téléphoner au service achats 714-326-6577. Attention: les solutions entraînent la production de vapeurs, gazeuses, ou solutions peuvent être cause de problèmes pulmonaires. Pour plus de renseignements, voir les fiches d'information de ce produit.

The above is a true copy of data on file. The material and test results conform to the sales contract and specifications on file in Allegheny Ludlum's Order Acknowledgment.

Tracy McMillan  
 Director, Corporate Quality Assurance

Description: 304L AMS 2248F  
 Customer: TW Metals  
 Shipped: 07/15/2010  
 Weight: 650096

Size: 36 X 120  
 P.O.: 211234  
 Purch: TW PO 644229280  
 Sales: 6 01152116  
 Quantity: 27

UNITED PERFORMANCE METALS  
 This is to certify that in accordance with the records in our files the material shipped on your purchase order conforms to the following:  
 3475 Symmes Road Hamilton, OH 45015

Authorized Signature  
 Lynne Harper